LATE REPORT FOR SWAN ISLAND, WEST INDIES

Table 1.—Mean free-air barometric pressure in millibars, temperature in degrees centigrade, and relative humidity in percent, obtained by radiosondes during October 1945

STATIONS AND ELEVATIONS IN METERS ABOVE SEA LEVEL

	Swan I	sland, W	est Indie	s (10 m.)		Swan Island, West Indies (10 m.)								
Altitude (meters) m. s. l.	Number of observations	Pressure Temperature		Relative hu- midity	Altitude (meters) m. s. l.	Number of observations	Pressure	Temperature	Relative hu- midity					
Surface 500. 1,000. 1,500. 2,000. 2,000. 4,000. 5,000. 6,000.	28 28 28 28 28 28 28 28 28 27 27	1, 011 956 903 853 804 757 714 632 558 491	25. 4 23. 0 20. 0 17. 2 14. 5 11. 8 9. 2 3. 6 -2. 1 -7. 8	85 81 78 75 72 68 66 61 32 57	7,000 8,000 9,000 10,000 11,000 12,000 13,000 14,000 16,000	26 28 26 25 25 24 24 22 21 13 5	432 378 329 286 247 212 181 154 130	-13.8 -20.3 -27.6 -35.2 -43.2 -51.5 -59.8 -67.7 -74.2 -78.0						

CORRECTIONS

Data for October 1945, Table 2, page 170, should read:

Alt. (m.) Obs. Dir. Velocity.

 San Antonio, Tex
 4,000
 19
 281
 5.8

 San Antonio, Tex
 5,000
 15
 278
 8.2

Table 2.—Free-air resultant winds based on pilot balloon observations made near 5 p. m., E. S. T. (2200 G. C. T.) during November 1945.

Directions given in degrees from north (N=360°, E=90°, S=180°, W=270°). Velocities in meters per second

	_	<i>D</i>			₩ y	1000	,	-	9,00	5) 1	OH T				-00							, ,						-				-							_
	A (bilen Tex. 534 m	e, .)	que,	ouqu N.N. 30 r	Иeх.	l	tlan Ga. 299 n	. ' 1	1	illings Aont. 095 m	٠ ا	N.	mar Da 12 m	k.	3	Boise Idah 68 m	o l	vil	rowr lle, T (7 m.	ex.	1	uffal N. Y 20 n	·	to	urlin on, V 00 m	ť. l	Cortor	harle 1, S. (16 m.	s- C.	(cinr Ohio 50 m			enve Colo 627 n	. 1		Paso Tex. 198 n	
Altitude (meters) m. s. i.	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velcity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity
Surface 500 1,000 1,500 2,000 2,500 3,000 4,000 5,000 6,000 8,000 10,000	30 29 27 27	223 236 249 258	10. 8	30 30 30 30 30 30 27 22 14	264 259 273 280 278 275 273 271 270	2. 0 3. 2 5. 1 8. 4 6 18. 6 120. 8 23. 3 23. 7	27 27 26 23 23 21 21 21 31 31 31	265 267 286 274 278 285 290 298	2. 1 2. 6 3. 0 4. 9 7. 4 8. 2 8. 6 10. 7	28 27 26 24 20 16 15	262 270 277 276 1 287 1 282 1 287 1	2. 8 6. 9 9. 2 9. 5 11. 3 15. 0 19. 7	27 27 23 22 22 21 17 14 13	306 295 290 287 288 290 297 296 286	2. 6 4. 0 6. 3 9. 1 10. 3 11. 6 12. 4 15. 4 20. 9		85 208 251 254 257 261			200	4. 9 6. 5 5. 4 5. 1 3. 2 1. 7 2. 0 4. 7 5. 9 8. 3 13. 6	3	241 234 233 246		1	182 208 245 262 268 275 279	1. 1 4. 1 6. 0 8. 2 10. 8 14. 9 14. 6	29 28 27 27 27 26 26 22 18 13	258 284 287 294 293 286 283 282 285 276 289			238 231 242 248 259 260 269	2. 6 4. 3 7. 0 10. 7 11. 5 11. 8 13. 1	30 30 29 29 28 24 22 11		2.8 3.5 5.2 6.8 9.6 15.0 19.9 24.2 23.9	30	257 256 258 257 267 270 265	2. 6 3. 4 4. 7 6. 7 9. 3 14. 1 15. 5 13. 9
	(1	y, Ne ,910 n	1.)	tio: (1,	n, C 413	olo. m.)		N. (271 r	n.)	d	Havre Mont 767 m	.)	vil (ckso le, I 16 m	fla. i.)	(Jolie Ill. 178 I	n.)	(as Ve Nev 573 n	n.)	(Ark (88 n	1.)	(Iedfo Oreş 416 n	i.)	(Miam Fla. 12 m	.)	0	Iobi Ala 66 m	١. `	1	ashv Teni 194 r	ille, n. n.)	Ne (w Yo N. Y 15 m.	rk,
Surface	29 29 29 28 22 19 18 14	203 201 231 246 268 274 270 275 302	1. 4 2. 1 4. 2 5. 9 10. 5 14. 8 18. 0 23. 5	30 30 30 29 26 22 20 14	292 264 242 241 265 277 282 286	2 2. 4 3. 6 4. 8 7. 6 10. 6 7 15. 6 2 18. 3	2 26 26 25 25 21 22 5 21 18 0 18 0 18 0 18	245 249 244 244 264 273 266 278 278 278	1. 3 2. 9 5. 7 4. 6 6. 7 6. 7 8. 1 10. 9 14. 7	28 26 25 23 21 16	280 267 265 273 271 276 275	1. 8 4. 1 9. 0 9. 5 10. 0 12. 6 14. 2	30 30 29 28 26 26 22 20 16 13	54 20 291 272 273 284 294 288 279 276	1. 3 0. 7 0. 6 2. 5 4. 4 4. 8 6. 2 10. 0 14. 4 16. 6	26 26 23 19 14 13 13	222 217 228 254 270 274	4. 3 5. 8 9. 6 9. 2 9. 2 114. 4	3 30 3 30 2 30 4 30 4 29 2 26 2 21 1 12	58 117 235 249 270 270 3 270 5 276 5 276 5 276 5 276 5 285	0. 6 1. 1 0. 9 3. 4 5. 9 12. 14. 17. 17. 17. 17. 17. 17. 17. 17. 17. 17	28 28 26 25 4 23 6 20 18 15 12 11	202 220 240 260 279 281 283 301 311 304	2 2. (2 4. 2 5. (6) 7. 8 9 9. 4 1 13. 14. 1 1 16. (1 21. (4) 25. (1	26 26 26 3 26 3 16 13 11	215 196 185 215 234 241 254	0.7 1.0 2.3 4.6 7.3 7.0 6.5	30 30 29 28 26 25 22 16 15 15	54 54 48 37 346 327 298 282 275 274 279	2. 5 5. 1 4. 9 3. 6 2. 8 2. 4 4. 2 6. 1 8. 3 9. 7 15. 0	30 30 28 5 26 5 25 1 21 1 13	158 228 242 296 295 308 282 290	3 0. 4 3 1. 8 2 1. 6 3 2. 9 3 3. 7 4 4. 6 7 7 6	. 10		2. 5 4. 5 6. 3 8. 9 9. 1 9. 5 10. 2 15. 6 3 18. 7		311 283 271 276 275 274	4. 6 6. 8 9. 4 10. 3 1. 5
	C	aklar Calif (8 m.		Cit	klah ty, (396 1	oma Okla. m.)	.	Oma Net (306 i	r.	1	hoeni Ariz. 338 m		1 8	pid (, Da 982 r	City ak. n.)	1	t. Lo Mo (181 1).		t. Pa Min (225 1	n, ´	to:	8an 1 nio, 240 1	An- Tex. m.)	Sa	n D Cali (15 n	f. í	Mε	ault s rie, M 225 m	Lich.	. (eatt Was 116 1	tle, sh. m.)	s	poka Was 603 1	ne, h. n.)	to	ashii n, D. (24 m	ng- Ö. .)
Surface			2. 5 2. 9 2. 9 3. 8 5. 3 7. 0 10. 3 11. 1		22- 22- 22- 24- 25- 26- 27- 27- 27- 27- 27-	4 2. 2 2. 8 4. 5 6. 9 4 12. 13. 16. 2 21. 4 24. 9 26.	5 29 26 22 27 20 6 24 6 2 9 20 11 6 1 1 3 1	9 268 9 26- 7 268 5 267 5 27- 5 28- 5 28- 5 28- 5 28- 5 28- 5 28- 1 28-	8 2.8 4 3.3 7 6.5 5 10.6 4 12.6 1 13.8 1 16.8 17.3 2 20.5 5 21.3	3 30 7 30 8 30 9 30 7 30 8 30 7 30 8 29 9 29 8 18 18	262 237 196 209 246 270 262 263 269 270 268 273	0. 9 1. 1 1. 1 1. 0 2. 7 5. 2 9. 1 12. 8 14. 7 15. 1 17. 8	29 29 29 27 25 24 21 19 17	340 314 298 283 280 285 290	3. 4 5. 6 7. 3 9. 3 11. 4 5 13. 16. 9	26 27 6 26 1 22 22 20 5 17 1 10 1 14	219 225 25 3 26 3 28 3 28 3 28 5 28 5 28 5 28 5 28 5 28 5 28 5 28 5	2. 2. 4. 3. 4. 8. 3. 10. 5. 10. 7. 13. 7. 17. 19. 24. 6. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 34. 5. 3	2 26 3 26 6 26 3 14 8 14 16 5 4 10 5 6 20 8 14 10 5 6 11	3 252 6 218 9 248 4 260 4 260 4 260 1 272 278	2 0. 1 3 1. 3 4. 3 9. 3 12. 3 14. 6 5 16. 6	9 29 5 29 8 28 8 27 3 25 6 21 6 20 19 18	173 175 183 203 233 260 260 260 260 260 273	3 2. 3 2 2. 7 4. 8 4. 1 5 4. 6. 8. 7 11. 9 13. 1 13	3 28 5 29 2 26 5 22 5 22 8 22 8 22 1 20 1 20 1 20	284 292 287 202 287 203 203 203 203 203 203 203 203 203 203	4. 0 3. 5 1. 1 0. 3 1. 4 2. 1 3. 9 7. 1 9. 3 11. 2 15. 2 18. 8	23 19 14 10	244 242 243 279 278	1. 2 1. 0 2. 7 5. 4 8. 6	2 28 2 28 7 24 4 18 6 14 10	195 203 214 214 218 218	3, 8 6, 4 9, 4 12, 8 9 13, 0 5 11,	3 29 4 29 8 23 16 1 13	201 21(222 23(238	2.8 5.2 7.9 8.6 9.7	26 26 26 20 20 20 17 13 11	200	1. 6 3. 1 5. 6 8. 5 10. 4 11. 3 12. 0 12. 7 14. 8 18. 1

Table 3.—Maximum free-air wind velocities (m. p. s.) for different sections of the United States based on pilot balloon observations during

November 1945

		Surfa	ce to 2,50)0 me	eters (m. s. l.)		Above	2,500 to 5	,000 :	meters (m. s. l.)	Above 5,000 meters (m. s. l.)								
Section	Maximum velocity	Direction	Altitude (m.) m.s.l.	Date	Station	Maximum velocity	Direction	Altitude (m.) m.s.l.	Date	Station	Maximum velocity	Direction	Altitude (m.) m.s.l.	Date	Station				
Northeast 1 East-Central 2 Southeast 3 North-Central 4 Central 5 South-Central 6 Northwest 7 West-Central 8 Southwest 9	44. 4 42. 2 40. 0 43. 6 41. 9 42. 3 50. 3 38. 1 33. 4	SW. N. NNW. WNW. SW. WNW. W. WSW. NW.	1, 427 2, 458 2, 500 2, 112 1, 225 1, 736 2, 500 2, 456 2, 500	7 15 15 4 16 4 11 7 12	Columbus, Ohio Chattanooga, Tenn Atlanta, Ga. Williston, N. Dak Kansas City, Mo Tulsa, Okla. Glasgow, Mont Pueblo, Colo Sandberg, Calif	48. 3 46. 5 45. 6 50. 6 53. 2 59. 6 53. 5 50. 6 60. 0	NW. NW. W.	3, 607 4, 494 4, 421 4, 053 4, 443 4, 521 4, 831 4, 177 5, 000	16 22 15 24 22 23 4 26 8	Missoula, Mont Denver, Colo	73. 0 80. 0 54. 6 76. 1 74. 4 100. 0 80. 0 74. 0 104. 0	WNW. SW. W. WSW. WSW. NNW. SW.	14, 664 9, 479 12, 201 7, 867 8, 488 14, 151 10, 645 8, 732 6, 143	6 3 20 9 12 13 21 11 8	Albany, N. Y. Nashville, Tenn. Jacksonville, Fla. Marquette, Mich. Goodland, Kans. Big Spring, Tex. Pocatello, Idaho. Denver, Colo. Ei Paso, Tex.				

Maine, Vermont, New Hampshire, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, and northern Ohio.
 Delaware, Maryland, Virginia, West Virginia, southern Ohio, Kentucky, eastern Tennessee, and North Carolina.
 South Carolina, Georgia, Florida, and Alabama.
 Michigan, Wisconsin, Minnesota, North Dakota, and South Dakota.
 Indiana, Illinois, Iowa, Nebraska, Kansas, and Missouri.

RIVER STAGES AND FLOODS FOR NOVEMBER 1945

By C. R. JORDAN

Precipitation during November was above normal from eastern Arkansas and Tennessee northeastward over the Ohio Valley, the Middle and North Atlantic States, and the western Lake region; the northern Great Basin; the Pacific Northwest; and Wyoming. Amounts were much above normal in a broad strip extending from Tennessee to New York and Wyoming. State averages for New York and Pennsylvania were the highest for November in over 20 years. Precipitation was light over the Great Plains and quite generally over the southern half of the country. Virtually no rain fell in Arizona and New Mexico.

Stream flow was dominantly above normal and was excessive over broad areas in the Northeastern States and in parts of California, Nevada, and Oregon. A few stations reported the greatest run-off of record for November. However, the flow was well distributed throughout the month and no serious flooding resulted. Light local flooding was reported in Indiana and eastern Texas but caused little or no damage. Small floods were reported in northern California, western Oregon, and southwestern Washington.

FLOOD STAGE REPORT FOR NOVEMBER 1945

[All dates in November unless otherwise indicated]

er uniess	OTHEL WISE	muicatedi						
Flood			Crest 1					
stage	From	то—	Stage	Date				
Feet 12	21	23	Feet 12.8	22				
]] .							
10	11	12	10.5	12				
9	19	19	9.0	19				
12	27	28	13.8	27				
11				28 27				
13		29		28				
8				26-27				
12				27 27				
	-							
12				19 28				
12	30	30	12.3	30				
	Flood stage Feet 12 10 9 12 11 20 38 38 12 12	Flood stage From— Feet 12 21 10 11 9 19 12 27 11 28 20 27 13 27 18 26 38 27 12 27 12 { 19	Flood stages—dates From— To— Feet 12 21 23 10 11 12 9 19 19 12 27 28 11 28 28 20 27 29 13 27 29 14 28 26 27 28 38 26 27 28 28 27 29 29 12 27 27 12 { 19 20 28 30 30	Flood stage				

¹ Provisional.

⁶ Mississippi, Arkansas, Louisiana, Oklahoma, Texas (except El Paso), and western

 ^{*} Montana, Idaho, Washington, and Oregon.
 * Wyoming, Colorado, Utah, northern Nevada, and northern California.
 * Southern California, southern Nevada, Arizona, New Mexico, and extreme west Texas.